(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 13 January 2005 (13.01.2005)

PCT

(10) International Publication Number WO 2005/004478 A1

(51) International Patent Classification7:

H04N 5/92

(21) International Application Number:

PCT/JP2004/009873

(22) International Filing Date:

5 July 2004 (05.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/485,207

3 July 2003 (03.07.2003) US

- (71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006 Oazakadoma, Kadoma-shi, Osaka 5718501 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): McCrossan, Joseph. OKADA, Tomoyuki. MOCHINAGA, Kazuhiro.
- (74) Agent: NAKAJIMA, Shiro; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 5310072 (JP).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

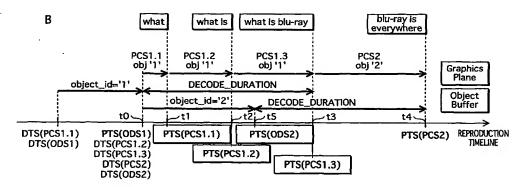
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: RECORDING MEDIUM, REPRODUCTION APPARATUS, RECORDING METHOD, INTEGRATED CIRCUIT, PROGRAM, AND REPRODUCTION METHOD

A (DS1) PCS1.1-PDS1-ODS1-END (DS2) PCS1.2-END ODS1 "what is blu-ray" (DS3) PCS1.3-END (DS4) PCS2-ODS2-END ODS2 " blu-ray is " everywhere



(57) Abstract: AVClip recorded in BD-ROM is obtained by multiplexing a graphics stream and a video stream. The graphics stream is a PES packet sequence that includes 1)PES packets storing graphics data (ODS) and 2)PES packets storing control information (PCS). In each ODS, values of DTS and PTS indicate a timing of decoding start for corresponding graphics data, and a timing of decoding end for corresponding graphics data, respectively. In each PCS, a value of PTS indicates a display timing of corresponding decoded graphics data combined with the video stream.

WO 2005/004478 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.